

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	2343-173-27
	First Inventor or Application Identifier	Shelly John MECHERY
	Title	OPTICAL SENSING ELEMENTS FOR NITROGEN DIOXIDE (NO <sub>2</sub> ) DETECTION, A SOL-GEL METHOD FOR MAKING THE SENSING ELEMENTS AND FIBER OPTIC SENSORS INCORPORATING NITROGEN DIOXIDE GAS OPTICAL SENSING ELEMENTS

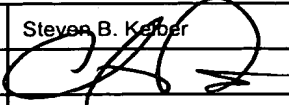
2389 J S P TO  
10/693519



<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents	<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application PO Box 1450 Alexandria, VA 22313-1450
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g. PTO/SB/17) (Submit an original and a duplicate for fee processing) <input checked="" type="checkbox"/> Applicant claims small entity status. 2. <input checked="" type="checkbox"/> Specification                      Total Pages <span style="border: 1px solid black; padding: 0 10px;">30</span> 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113)    Total Sheets <span style="border: 1px solid black; padding: 0 10px;">11</span> 4. <input type="checkbox"/> Oath or Declaration                      Total Pages <span style="border: 1px solid black; padding: 0 10px;">  </span> a. <input type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. §1.63(d)) (for continuation/divisional with box 16 completed) 5. <input type="checkbox"/> Incorporation By Reference (usable if box 4B is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4B, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein.	<b>ACCOMPANYING DOCUMENTS</b> 6. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 7. <input type="checkbox"/> 37 C.F.R. §3.73(b) Statement <input type="checkbox"/> Power of Attorney (when there is an assignee) 8. <input type="checkbox"/> English Translation Document (if applicable) 9. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 10. <input type="checkbox"/> Preliminary Amendment 11. <input checked="" type="checkbox"/> White Advance Serial No. Postcard 12. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 13. <input type="checkbox"/> Request for Priority 14. <input checked="" type="checkbox"/> List of Inventors' Names and Addresses 15. <input type="checkbox"/> Other:
16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP)    of prior application no.: Prior application information:    Examiner:    Group Art Unit:	
17. Amend the specification by inserting before the first line the sentence: <input type="checkbox"/> This application is a <input type="checkbox"/> Continuation <input type="checkbox"/> Division <input type="checkbox"/> Continuation-in-part (CIP) of application Serial No.    Filed on <input type="checkbox"/> This application claims priority of provisional application Serial No.    Filed	
<b>18. CORRESPONDENCE ADDRESS</b> Supervisor, Patent Prosecution Services PIPER RUDNICK LLP 1200 Nineteenth Street, N.W. Washington, D.C. 20036-2412 Telephone No. (202) 861-3900 Facsimile No. (202) 223-2085	

Name	Steven B. Ketner	Registration No.	30,073
Signature		Date	October 27, 2003
Name	Christopher W. Raimund	Telephone	202-861-3900
		Registration No.	47,258

<b>FEE TRANSMITTAL</b>				Docket No.		2343-173-27				
				Serial No.		NEW U.S. PATENT APPLICATION				
				Filing Date		HEREWITH				
				Inventor(s)		Shelly John MECHERY				
				Group Art Unit						
TOTAL AMOUNT OF PAYMENT				\$684.00		Examiner				
1. <input checked="" type="checkbox"/> Applicant claims small entity status. <input type="checkbox"/> Charge any <b>UNDERPAYMENT</b> or credit any <b>OVERPAYMENT</b> in the indicated fees to Deposit Account No. 50-1442. <input type="checkbox"/> Charge the indicated fees to Deposit Account No. 50-1442.				<b>FEE CALCULATION (continued)</b>						
				<b>3. ADDITIONAL FEES</b>						
				Large Entity		Small Entity		Fee Description		
2. <input checked="" type="checkbox"/> Check enclosed.				Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Paid		
<b>FEE CALCULATION</b>				1051	130	2051	65	Surcharge-late filing fee or oath		
<b>1. BASIC FILING FEE</b>				1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet		
				1053	130	1053	130	Non-English Specification		
Large Entity		Small Entity		Fee Description		1251	110	2251	55	1-mo. ext. of time
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Paid		1252	420	2252	210	2-mo. ext. of time
1001	770	2001	385	Utility filing fee		385				
1002	340	2002	170	Design filing fee						
1003	520	2003	260	Plant filing fee						
1004	770	2004	385	Reissue filing fee						
1005	160	2005	80	Provisional filing fee						
<b>SUBTOTAL (1)</b>				\$385.00		1402	330	2402	165	Appeal Brief
<b>*2. EXTRA CLAIM FEES</b>				1403	290	2403	145	Request for Oral Hearing		
tot. claims		46	-	20*	=	26	x	\$9	=	234
ind. claims		3	-	3*	=	0	x	\$43	=	0
<input type="checkbox"/> Multiple Dependent Claims				\$145	=					
Large Entity		Small Entity		Fee Description		8001	3	8001	3	Advance Copy of Patent
Fee Code	Fee (\$)	Fee Code	Fee (\$)			1460	130	1460	130	Petitions to the Commissioner
1202	18	2202	9	Claims in excess of 20		1806	180	1806	180	IDS Submission
1201	86	2201	43	Independent claims in excess of 3		8021	40	8021	40	Assignment recordation
1203	290	2203	145	Multiple dependent claim, if not paid		1801	770	2801	385	For Filing RCE
1204	84	2204	43	*Reissue independent claims over original patent		1814	110	2814	55	Terminal Disclaimer
1205	18	2205	9	*Reissue claims in excess of 20 and over original patent		OTHER (indicate below):				
<b>SUBTOTAL (2)</b>				\$234.00						
* or number previously paid, if greater; For Reissues, see above						<b>SUBTOTAL (3)</b>				\$65.00

Name	Steven B. Kober	Registration No.		30,073	
Signature		Date	October 27, 2003	Telephone	202-861-3900
Name	Christopher W. Raimund	Registration No.		47,258	

DOCKET NO. 2343-173-27

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Shelly John MECHERY      ART UNIT:  
SERIAL NO.: NEW U.S. PATENT APPLICATION      EXAMINER:  
FILING DATE: HERewith  
FOR: OPTICAL SENSING ELEMENTS FOR NITROGEN DIOXIDE (NO<sub>2</sub>)  
DETECTION, A SOL-GEL METHOD FOR MAKING THE SENSING  
ELEMENTS AND FIBER OPTIC SENSORS INCORPORATING  
NITROGEN DIOXIDE GAS OPTICAL SENSING ELEMENTS

**LIST OF INVENTORS' NAMES AND ADDRESSES**

ASSISTANT COMMISSIONER FOR PATENTS  
PO BOX 1450  
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SIR:

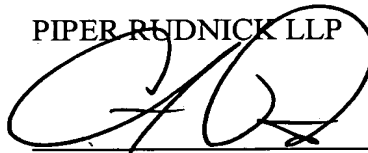
Listed below are the names and addresses of the inventors for the above-identified patent application.

- 1) Shelly John MECHERY  
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Mississippi State, MS 39762
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A declaration containing all the necessary information will be submitted at a later date.

Respectfully submitted,

PIPER RUDNICK LLP



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